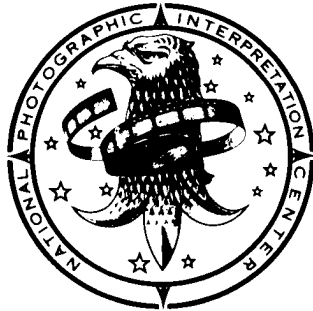


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PHOOTOGRAPHIC
INTERPRETATION
REPORT

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

**POSSIBLE SS-X-20-ASSOCIATED
COMMAND AND CONTROL SILO
UNDER CONSTRUCTION AT
KAPUSTIN YAR, USSR (TSR)**

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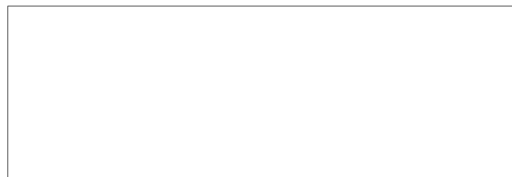
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DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
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**POSSIBLE SS-X-20-ASSOCIATED COMMAND AND
CONTROL SILO UNDER CONSTRUCTION
AT KAPUSTIN YAR, USSR (TSR)**

1. (TSR) A silo under construction since September 1976 at the Kapustin Yar Missile/Space Test Center [] USSR, appears to be a possible SS-X-20 command and control silo. The silo, which is at least [] is in the administration/barracks section of the MR/IRBM bivouac troop training area.

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2. (TSR) The command and control function for the silo is suggested by the following: its location in an administration/barracks section; the start of construction for both the silo and three SS-X-20 regimental-size, crew-training support facilities at the test center; and, most importantly, cable trenches interconnecting the silo, two SS-X-20-associated communication towers, and a possible command and control building (Figure 1).

3. (TSR) The location of the silo in an administration/barracks section would seem to rule out a launch capability because of safety considerations for personnel and buildings near the silo. On the basis of past observations of Soviet silo-launched missile testing and development, a missile system is test fired from a research and development (R&D) silo prior to the construction of a training silo. No evidence has been observed of an R&D silo at the test center. Therefore, it seems unlikely that the silo is for a silo-launched version of the SS-X-20 or a new, as yet unidentified, missile system.

4. (TSR) When the silo (Figure 2) was first identified under construction [] a silo wall segment, 5.0 meters high, was seen adjacent to the silo. The silo wall segment was not present when the silo was observed [] and had presumably been placed in the silo. Additionally on that date, the silo shaft had been covered by a probable canvas environmental cover.

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5. (TSR) [] possible/probable silo headworks components were observed for the first time at a rail-to-road transfer point in the missile receiving/inspection/storage area. These components were moved to the silo [] On that date a possible silo door, a probable silo headworks base (already placed inside the silo), a possible silo-door pocket, and two possible headworks components were observed adjacent to the silo (Figure 3). For a chronology of silo-related activity see Table 1. A cross-sectional drawing of the silo and its components is presented in Figure 4).

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6. (TSR) In 1975, the possible command and control building was trench-connected to a concrete apron in the southwest portion of the MR/IRBM bivouac/troop training area. Later in 1975, two trailer-mounted TWIN EAR antennas were observed on the concrete apron and have been seen there since that date. Trenches connecting the possible command and control building to the silo and to two SS-X-20-associated, 30-meter-high communication towers were completed [REDACTED] This pattern of trenching, connecting two 30-meter-high communication towers to a building in an administration/barracks section, has also been identified at Drovyanaya Mobile IRBM Support Base 1 and Drovyanaya Mobile IRBM Support Base 2; this pattern is also probably under construction at Novosibirsk Mobile IRBM Support Base 1. These three facilities are among the six SS-X-20 mobile missile support bases that have been identified to date.

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Table 1. Chronology of Possible SS-X-20 Command and Control Silo-Related Activity
This table in its entirety is classified TOP SECRET RUFF

	MR/IRBM Bivouac Troop Training Area	Missile Receiving/Inspection/Storage Area
	<p>Silo was not present</p> <p>Silo first observed ucon; silo headworks coring, silo shaft, & silo wall segment adjacent to silo present; 2 communication towers not present</p> <p>2 communication towers first observed ucon</p> <p>Silo wall segment presumably placed in silo; silo shaft covered by environmental cover</p> <p>Start of trenching between command & control bldg, both communication towers, & silo; paving blocks first observed south of silo</p> <p>Trenching complete between silo, command & control bldg, & both communication towers</p>	<p>2 halves of a poss headworks component were at RTP in SE portion of fac</p> <p>2 halves of a poss headworks component and poss silo door were at the RTP</p> <p>2 halves of poss headworks component present; poss silo door not present</p>
	<p>Support bldg NE of silo complete</p> <p>2 halves of a poss headworks component just west of silo</p>	<p>No silo components visible at RTP</p>
	<p>2 halves of a poss headworks component west of silo; prob silo headworks base placed in silo; poss silo door west of silo; poss silo-door pocket being assembled on a template south of silo</p>	

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REFERENCES

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REQUIREMENT

Project 130000NE

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List of Conversion Factors by Classification

UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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